

Table 6-3
Summary Statistics for Dioxin and Furan Concentrations in Soil Investigation Area 4 and Adjacent Core Soil Samples

Analyte	Number of Samples	Number of Detected Measurements	Detection Frequency	Concentration (ng/kg dw)		
				Minimum	Maximum	Mean
2,3,7,8-TCDD	172	140	81%	0.0314	33,800	509
1,2,3,7,8-PeCDD	172	109	63%	0.00935	375	6.21
1,2,3,4,7,8-HxCDD	172	107	62%	0.00875	17.5	1.52
1,2,3,6,7,8-HxCDD	172	137	80%	0.00865	89.6	7.59
1,2,3,7,8,9-HxCDD	172	138	80%	0.0184	52	4.65
1,2,3,4,6,7,8-HpCDD	172	168	98%	0.135	2,390	233
OCDD	172	172	100%	5.86	106,000	6,690
2,3,7,8-TCDF	172	159	92%	0.049	129,000	1,880
1,2,3,7,8-PeCDF	172	127	74%	0.00505	8,300	86.6
2,3,4,7,8-PeCDF	172	127	74%	0.00575	3,690	47.4
1,2,3,4,7,8-HxCDF	172	144	84%	0.0078	11,300	118
1,2,3,6,7,8-HxCDF	172	120	70%	0.00815	3,750	39.2
1,2,3,7,8,9-HxCDF	172	51	30%	0.0112	242	2.31
2,3,4,6,7,8-HxCDF	172	103	60%	0.0093	646	8.31
1,2,3,4,6,7,8-HpCDF	172	152	88%	0.011	4,240	82.3
1,2,3,4,7,8,9-HpCDF	172	111	65%	0.0148	1,620	18.6
OCDF	172	153	89%	0.0221	11,300	768
TEQ _{DF,M}	172	172	100%	0.0917	50,100	743

Notes

Summary statistics calculations include detected and nondetected values. Nondetected values were set to one-half the detection limit.

TEQ_{DF,M} (ND=1/2DL) = Toxicity equivalent for 2,3,7,8-tetrachlorinated dibenzo-p-dioxin (TCDD) calculated using dioxins and furans and mammalian toxicity equivalency factors (Van den Berg et al. 2006) with nondetects set at one-half the detection limit.

dw = dry weight